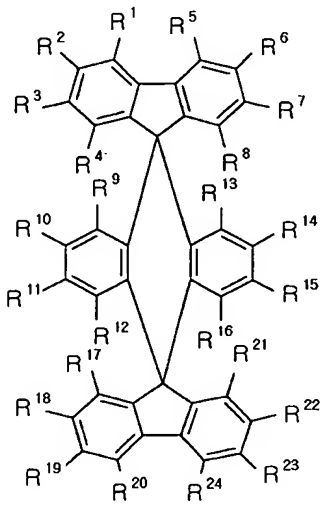
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Original) A chemical compound of Chemical Formula I:



Chemical Formula 1

wherein Rl through R24 are substituent groups, identical or different, and wherein not all of R1 through R24 are hydrogen.

2. (Previously Presented) The chemical compound of Claim 1, wherein one or more of R1-R24 are selected from the aryl group consisting of phenyl, biphenyl, terphenyl, benzyl, naphthyl, anthracenyl, tetracenyl, pentacenyl, perylenyl coronenyl, and heteroaryl, which are either substituted or unsubstituted.

3. (Previously Presented) The chemical compound of Claim 2, wherein the aryl groups are further substituted with one or more phenyl, biphenyl, terphenyl, benzyl, naphthl, anthracenyl, tetracenyl, pentacenyl, perylenyl, coronenyl or heteroaryl, which are either substituted or unsubstituted.

4. (Original) The chemical compound of Claim 1, wherein one or more of the R1-R24 are selected from the heteroaryl group consisting of thiophenyl, thiazolyl, oxazolyl, imidazolyl, and pyrazinyl, either substituted or unsubstituted.

5. (Previously Presented) The chemical compound of Claim 1, wherein one or more of Rl-R24 are selected from the group consisting of amines with at least one aryl substituent and aryl including phenyl, biphenyl, terphenyl, benzyl, naphthyl, anthracenyl, tetracenyl, pentacenyl, perylenyl, coronenyl and heteroaryl.

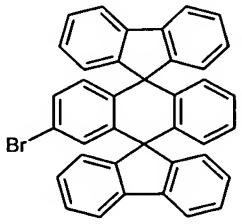
6. (Currently Amended) The chemical compound of Claim 1, wherein at least one of R1-R24 is ~~anthracenyle~~ anthracenyl or heteroaryl.

7. (Original) The chemical compound of Claim 1, wherein the substituent groups Rl through R24 can be substituted by one or more organic moieties satisfying General Formula I.

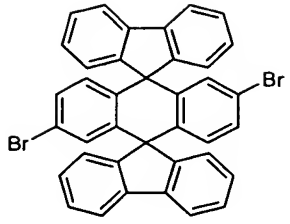
8. (Original) The chemical compound of Claim 1, wherein one or more of the R3, R7, R10, R11, R14, R15, R18, and R22 are substituted with non-hydrogen substituent groups.

9. (Original) The chemical compound of Claim 1, wherein one or more pairs of R3 and R7; R18 and R22; R10 and R15; and R11 and R14 are substituted with non-hydrogen substituent groups.

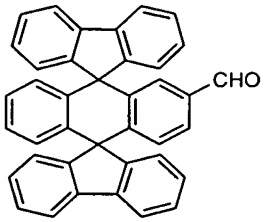
10. (Original) The chemical compound of Claim 1, wherein the compound is selected from the group consisting of Chemical Compounds 1-11, 100-137, 200-222, 300-308, and 400-413 as shown below, and wherein "Br" in Chemical Compounds 1, 2 and 5-7 may be substituted with another leaving group:



Chemical Compound 1



Chemical Compound 2



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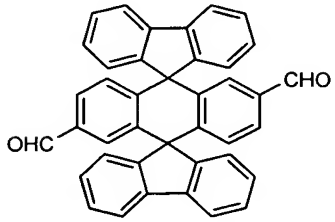

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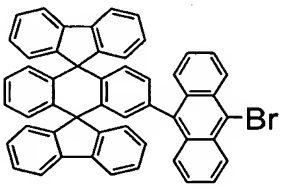

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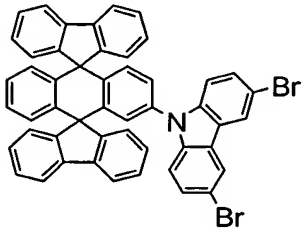

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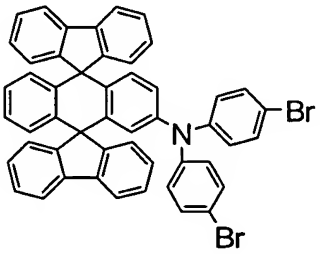

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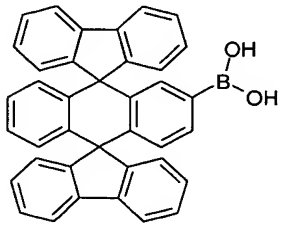
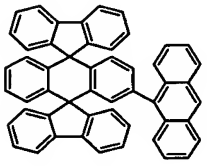


Chemical Compound 8



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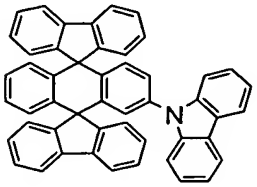

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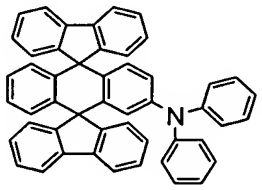

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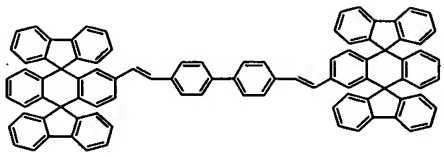
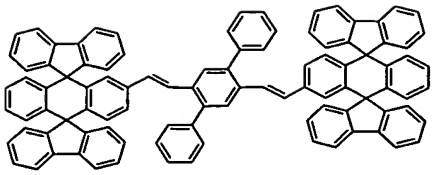


Chemical Compound 100



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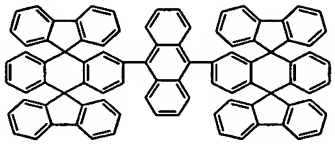

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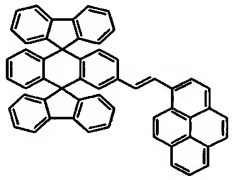

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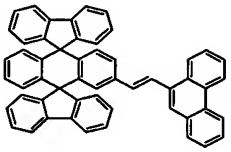

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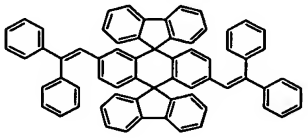

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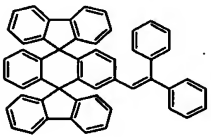

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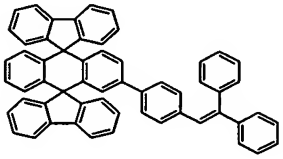

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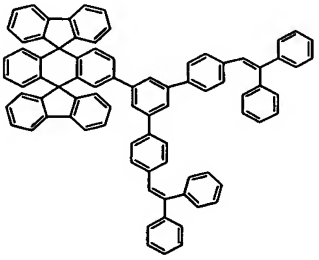

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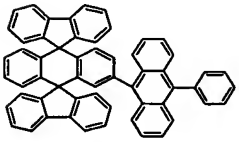

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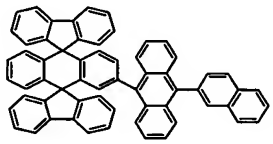

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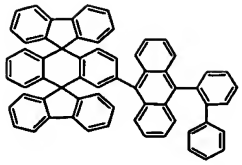

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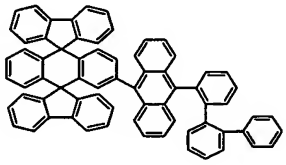

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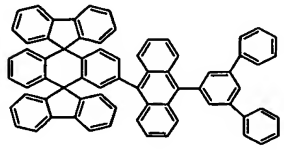

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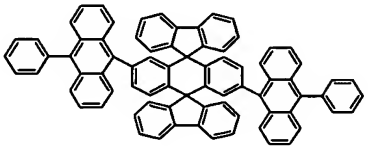

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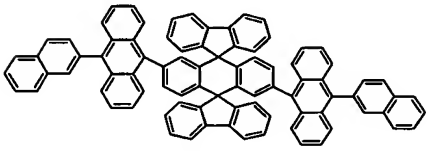

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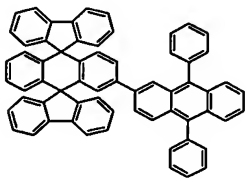

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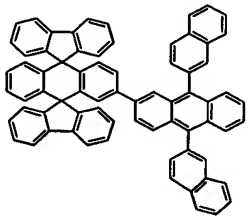

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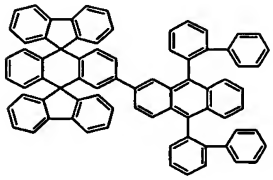

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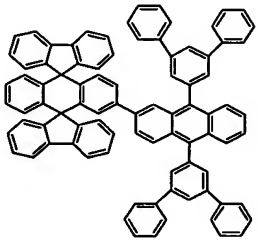

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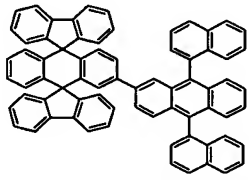

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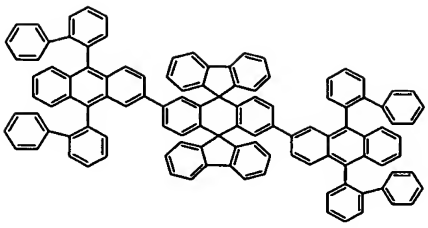

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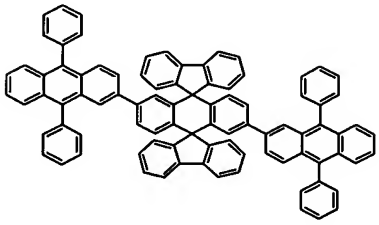

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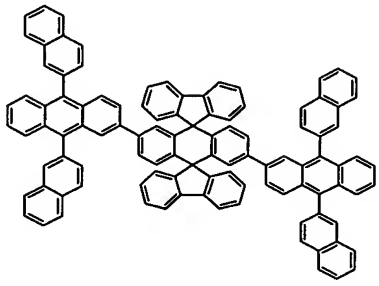

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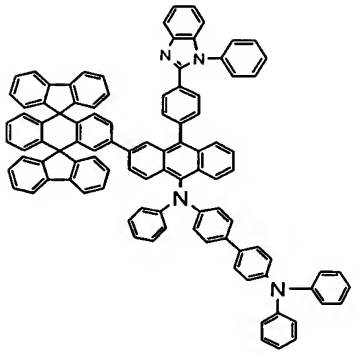

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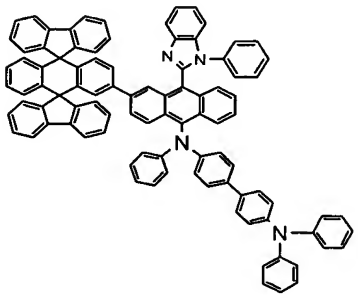

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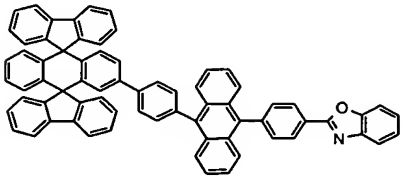

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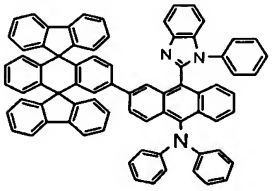

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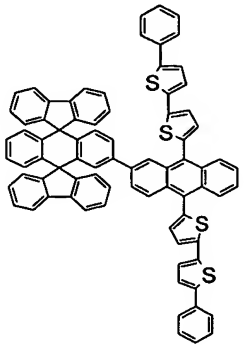

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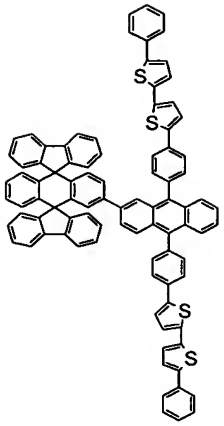

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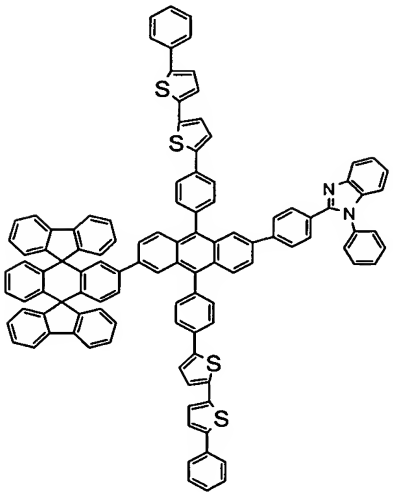

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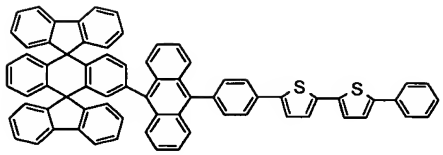

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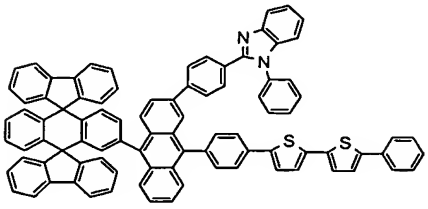

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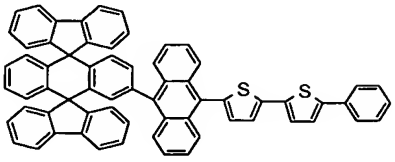
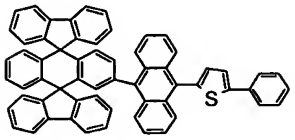


Chemical Compound 133



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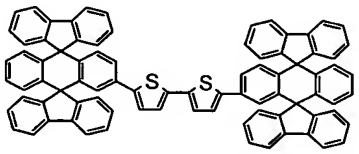

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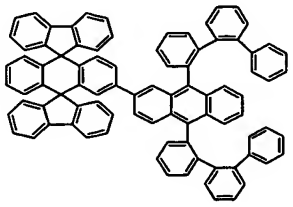

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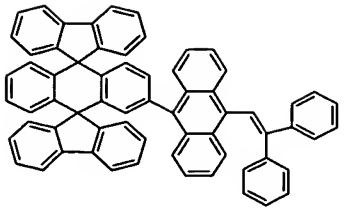

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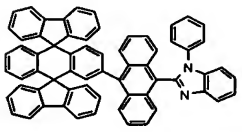
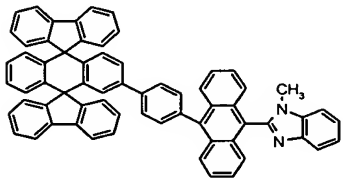


Chemical Compound 200



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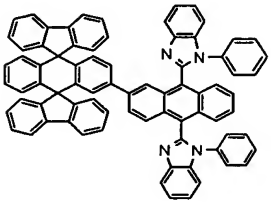

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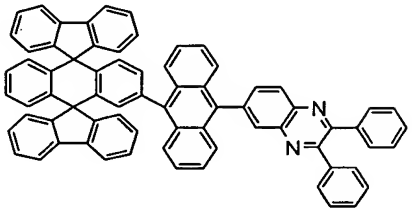
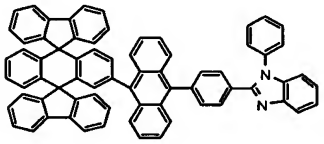
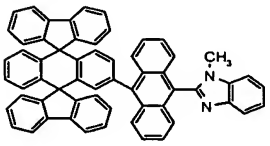


Chemical Compound 203



Chemical Compound 204



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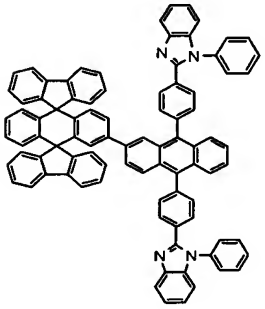

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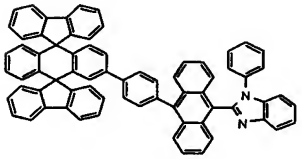

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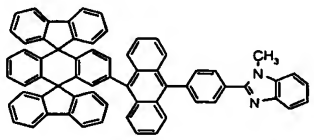

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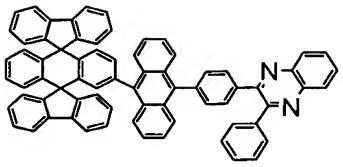

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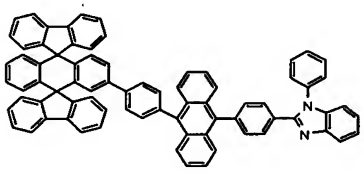

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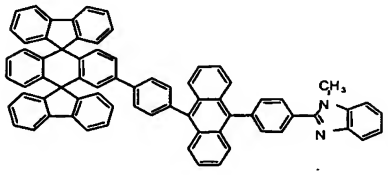

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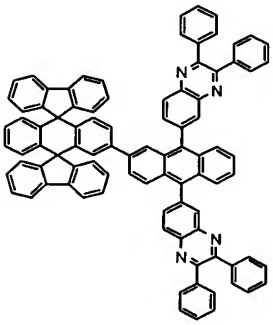

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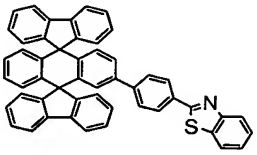

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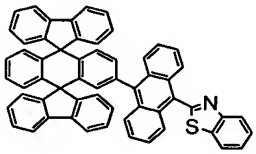

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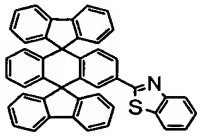

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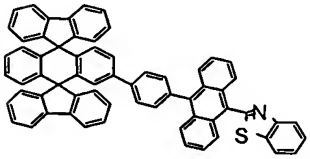

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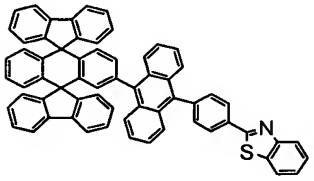

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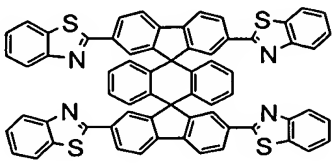

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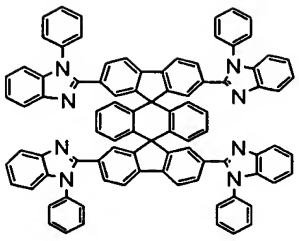

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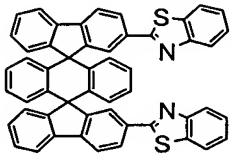

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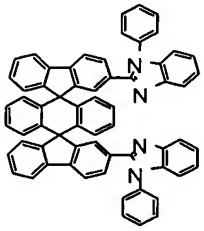

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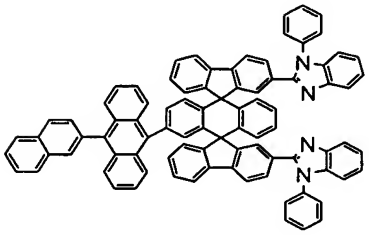
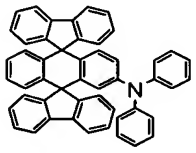
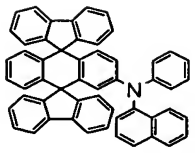


Chemical Compound 222



Chemical Compound 300



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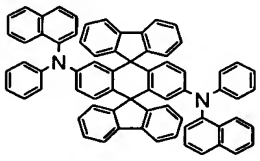

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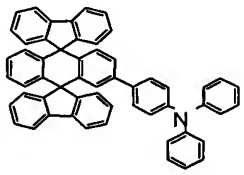

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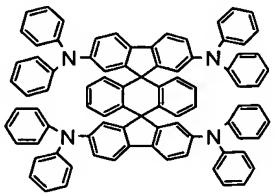

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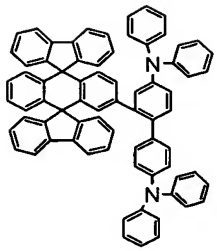

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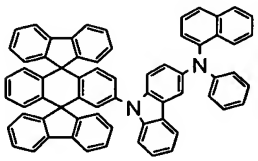

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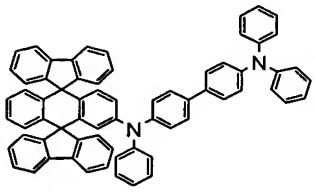

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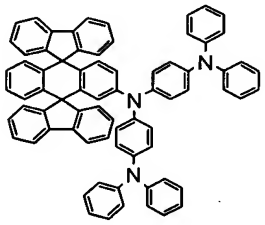

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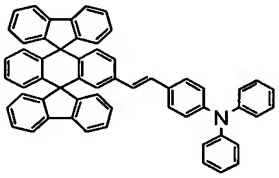

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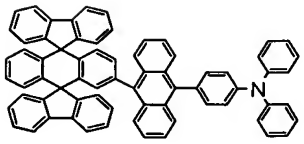

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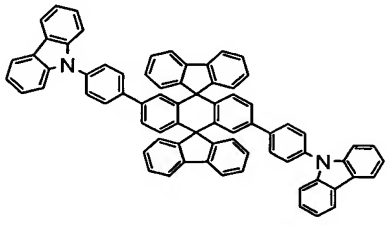

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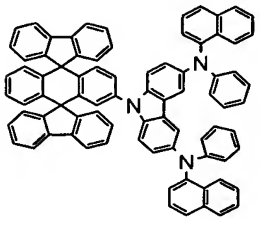

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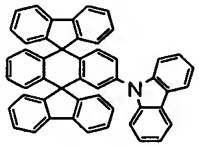

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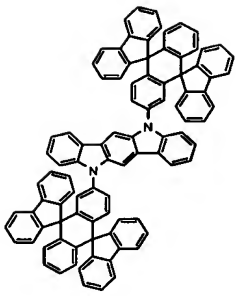

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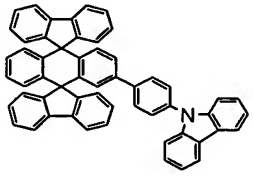

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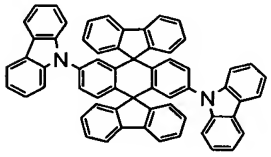

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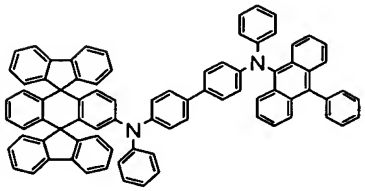

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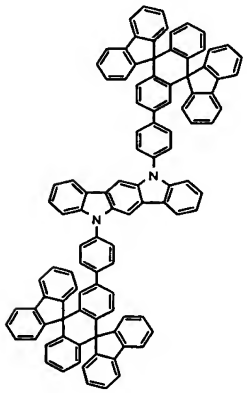

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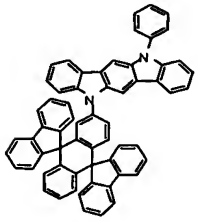

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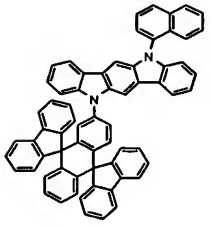

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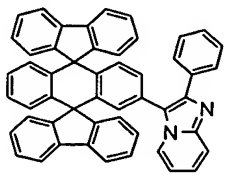
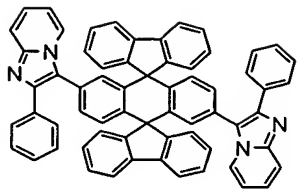


Chemical compound 412



Chemical Compound 413.

11. (Original) The chemical compound of Claim 1, wherein the compound has a melting point above about 300°C.

12. (Original) The chemical compound of Claim 1, wherein the compound has a band-gap corresponding to visible light emission.

13. (Original) The chemical compound of Claim 12, wherein the band-gap for the visible light emission is from about 1.8 eV to about 3.5 eV.

14. (Original) The chemical compound of Claim 12, wherein the band-gap corresponds to blue, green or red light emission.

15. (Original) The chemical compound of Claim 1, wherein the compound has a hole-transporting property.

16. (Original) The chemical compound of Claim 1, wherein hole mobility in the compound is about $1x10^{-7}$ cm^2/Vs or greater.

17. (Original) The chemical compound of Claim 1, wherein the compound has an electron-transporting property.

18. (Original) The chemical compound of Claim 1, wherein electron mobility in the compound is about $1x10^{-7}$ cm^2/Vs or greater.

19. (Original) The chemical compound of Claim 1, wherein the compound has a hole-injecting property.

20. (Original) The chemical compound of Claim 1, wherein the compound has the highest occupied molecular orbital (HOMO) level from about -4.0 eV to about -6.0 eV.

21. (Original) The chemical compound of Claim 1, wherein the compound has an electron-injecting property.

22. (Original) The chemical compound of Claim 1, wherein the compound has the lowest unoccupied molecular orbital (LUMO) level from about -2.5 eV to about -4.0 eV.

23-88. (Canceled)